

# Weekly Report for 2015/6/15 – 2015/6/21

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## Progress

### 1. Revise vis2015 submission

Prof. Wu gave me some advices:

1) The algorithm used in the paper is too trivial.

Simply calculating some graph metrics is trivial. I should find some models or theories in other fields such as data mining, psychology and perception and use them to evaluate the impact of edges to the graph.

2) Designs in the system are not novel.

After finding proper theory, we need to re-design the visualization. Currently the designs of the system are confusing. We aim to analyze dynamic graph by edges, but the sankey diagram is off the subject because it visualizes vertexes in graph instead of the edges.

3) The introduction part needs to be rewritten.

The introduction part didn't show the importance of our work.

### 2. Large Graph Visualization

This week I read the third chapter of *Scala for Impatient*.

I talked with Lin Tao. We think that visualizing large by Spark and d3 (or webgl) is promising. We plan to firstly search related work because there might be some works that parallel visualize large graph on GPU.

### 3. Big Data

Listened the report from Zhu Minfen.

### 4. Group Meeting

I reported the best paper of VAST 2015 on group meeting. The evaluation part of this paper is very convincing because it quantified the users' behaviors and showed obviously different result between the CLIP system and the baseline system. If we need to design a user study, we can also consider how to quantify the measure of the system.

## Plan

### 1. Revise vis2015 submission

Search the theoretical basis of this work.

### 2. Large Graph Visualization

Continue to read the book, and learn to use Spark.

Search related work.

### 3. Big Data

Prepare the report about dimension reduction methods.